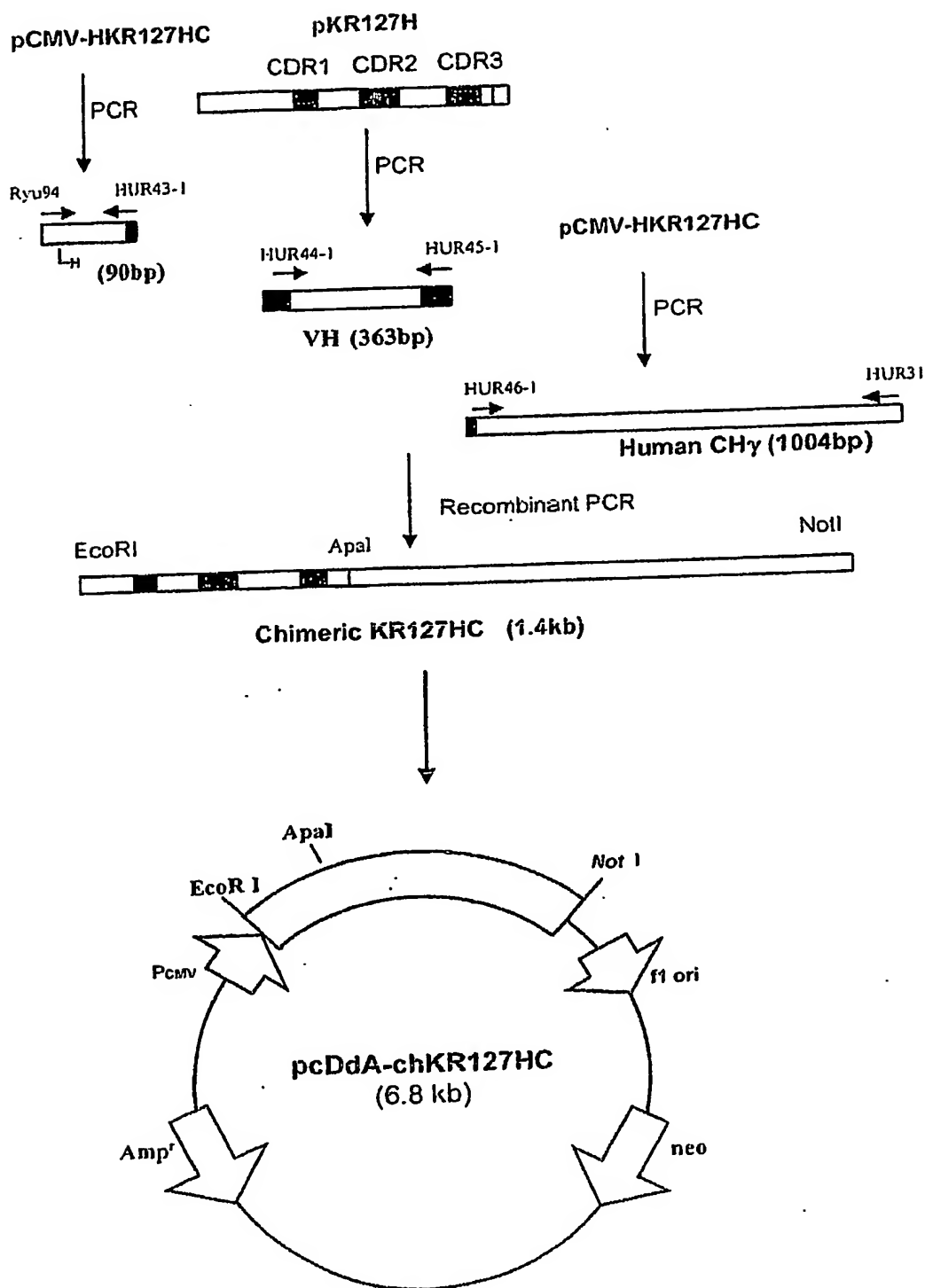


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FIG. 1

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FIG. 2A

	Q	V	Q	L	Q	Q	S	G	P	E	L	V	K	P
KR127VH	CAG	CTC	CAG	CTG	CAG	CAG	TCT	GGA	CCT	GAA	CTG	GTG	AAG	CCT 42
	Q	V	Q	L	V	Q	S	G	A	E	V	K	K	P
DP7	CAG	GTG	CAG	CTG	GTG	CAG	TCT	GGG	GCT	GAG	GTG	AAG	AAG	CCT
HZ 1	CAG	CTC	CAG	CTG	GTG	CAG	TCT	GGA	GCT	GAA	GTG	GTG	AAG	CCT
HZ V11	CAG	CTC	CAG	CTG	GTG	CAG	TCT	GGA	GCT	GAA	GTG	AAG	AAG	CCT
HZ 1	-	-	-	-	V	-	-	-	A	-	V	-	-	-
HZ V11	-	-	-	-	V	-	-	-	A	-	V	K	-	-

	G	A	S	V	K	I	S	C	K	A	S	G	Y	A
KR127VH	GGG	GCC	TCA	GTG	AAG	ATT	TCC	TGC	AAA	GCT	TCT	GGC	TAC	GCA 84
	G	A	S	V	K	V	S	C	K	A	S	G	Y	T
DP7	GGG	GCC	TCA	GTG	AAG	GTT	TCC	TGC	AAG	GCA	TCT	GGC	TAC	ACC
HZ1	GGG	GCC	TCA	GTG	AAG	GTT	TCC	TGC	AAA	GCT	TCT	GGC	TAC	GCA
HZ V11	GGG	GCC	TCA	GTG	AAG	GTT	TCC	TGC	AAA	GCT	TCT	GGC	TAC	ACC
HZ1	-	-	-	-	-	V	-	-	-	-	-	-	-	-
HZV11	-	-	-	-	-	V	-	-	-	-	-	-	-	T

	CDR1													
	F	S	S	S	W	M	N	W	V	K	Q	R	P	G
KR127VH	TTC	AGT	AGT	TCT	TGG	ATG	AAC	TGG	GTG	AAG	CAG	AGG	CCT	GGA 126
	F	T	S	Y	Y	M	H	W	V	R	Q	A	P	G
DP7	TTC	ACC	AGC	TAC	TAT	ATG	CAC	TGG	GTG	CGA	CAG	GCC	CCT	GGA
HZ1	TTC	AGT	AGT	TCT	TGG	ATG	AAC	TGG	GTG	CGA	CAG	GCC	CCT	GGA
HZ V11	TTC	ACC	AGT	GCT	TGG	ATG	AAC	TGG	GTG	CGA	CAG	GCC	CCT	GGA
HZ1	-	-	-	-	-	-	-	-	-	R	-	A	-	-
HZV11	-	T	-	A	-	-	-	-	-	R	-	A	-	-

	CDR2													
	Q	G	L	E	W	I	G	R	I	Y	P	G	D	G
KR127VH	CAG	GGT	CTT	GAG	TGG	ATT	GGA	CGG	ATT	TAT	CCT	GGA	GAT	GGA 168
	Q	G	L	E	W	M	G	I	I	N	P	S	G	G
DP7	CAA	GGG	CTT	GAG	TGG	ATG	GGA	ATA	ATC	AAC	CCT	AGT	GGT	GGT
HZ1	CAG	GGT	CTT	GAG	TGG	ATT	GGA	CGG	ATT	TAT	CCT	GGA	GAT	GGA
HZV11	CAG	GGT	CTT	GAG	TGG	ATG	GGA	CGG	ATT	TAT	CCT	AGT	GGT	GGA
HZ1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HZV11	-	-	-	-	-	M	-	-	-	-	-	S	G	-

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FIG. 2B

		CDR2																	
		D	T	N	Y	N	G	K	F	K	G	K	A	T	L				
KR127VH		GAT	ACT	AAC	TAC	AAT	GGG	AAG	TTC	AAG	GGC	AAG	GCC	ACA	CTG	210			
		S	T	S	Y	A	Q	K	F	Q	G	R	V	T	M				
DP7		AGC	ACA	AGC	TAC	GCA	CAG	AAG	TTC	CAG	GGC	AGA	GTC	ACC	ATG				
HZ1		GAT	ACT	AAC	TAC	GCA	CAG	AAG	TTC	CAG	GGC	AAG	GCC	ACA	CTG				
HZV11		AGC	ACT	AGC	TAC	GCA	CAG	AAG	TTC	CAG	GGC	AGA	GTC	ACA	ATG				
HZ1		-	-	-	-	A	Q	-	-	Q	-	-	-	-	-				
HZV11		S	-	S	-	A	Q	-	-	Q	-	R	V	-	M				
		T	A	D	K	S	S	S	T	A	Y	M	Q	L	S				
KR127VH		ACT	GCA	GAC	AAA	TCC	TCC	AGC	ACA	GCC	TAC	ATG	CAG	CTC	AGC	252			
		T	R	D	T	S	T	S	T	V	Y	M	E	L	S				
DP7		ACC	AGG	GAC	ACG	TCC	ACG	AGC	ACA	GTC	TAC	ATG	GAG	CTG	AGC				
HZ1		ACT	GCA	GAC	AAA	TCC	ACG	AGC	ACA	GCC	TAC	ATG	GAG	CTC	AGC				
HZV11		ACT	GCA	GAC	AAA	TCC	ACG	AGC	ACA	GTC	TAC	ATG	GAG	CTC	AGC				
HZ1		-	-	-	-	-	T	-	-	-	-	-	E	-	-				
HZV11		-	-	-	-	-	T	-	-	V	-	-	E	-	-				
		S	L	T	S	V	D	S	A	V	Y	F	C	A	R				
KR127VH		AGC	CTG	ACC	TCT	GTG	GAC	TCT	GCG	GTC	TAT	TTC	TGT	GCA	AGA	294			
		S	L	R	S	E	D	T	A	V	Y	Y	C	A	R				
DP7		AGC	CTG	AGA	TCT	GAG	GAC	ACG	GCC	GTG	TAT	TAC	TGT	GCG	AGA				
HZ1		AGC	CTG	AGA	TCT	GAG	GAC	ACG	GCG	GTC	TAT	TTC	TGT	GCA	AGA				
HZV11		AGC	CTG	AGA	TCT	GAG	GAC	ACG	GCG	GTG	TAT	TAC	TGT	GCA	AGA				
HZ1		-	-	R	-	E	-	T	-	-	-	-	-	-	-				
HZV11		-	-	R	-	E	-	T	-	-	-	Y	-	-	-				
		CDR3																	
		E	Y	D	E	A	Y	W	G	Q	G	T	L	V	T				
KR127VH		GAG	TAC	GAC	GAG	GCT	TAC	TGG	GGC	CAA	GGG	ACT	CTG	GTC	ACT	336			
								W	G	Q	G	T	L	V	T				
HZ1		GAG	TAC	GAC	GAG	GCT	TAC	TGG	GGC	CAA	GGA	ACT	CTG	GTC	ACT				
HZV11		GAG	TAC	CGG	GTT	GCC	CGT	TGG	GGC	CAA	GGA	ACT	CTG	GTC	ACT				
HZ1		-	-	-	-	-	-	-	-	-	-	-	-	-	-				
HZV11		-	-	R	V	-	R	-	-	-	-	-	-	-	-				

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FIG. 2C

	V	S	A
KR127VH	GTC	TCT	GCA 345
	V	S	S
HZJ	GTC	TCT	TCA
HZVII	GTC	TCT	TCA
HZI	-	-	S
HZVI1	-	-	S

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FIG. 3

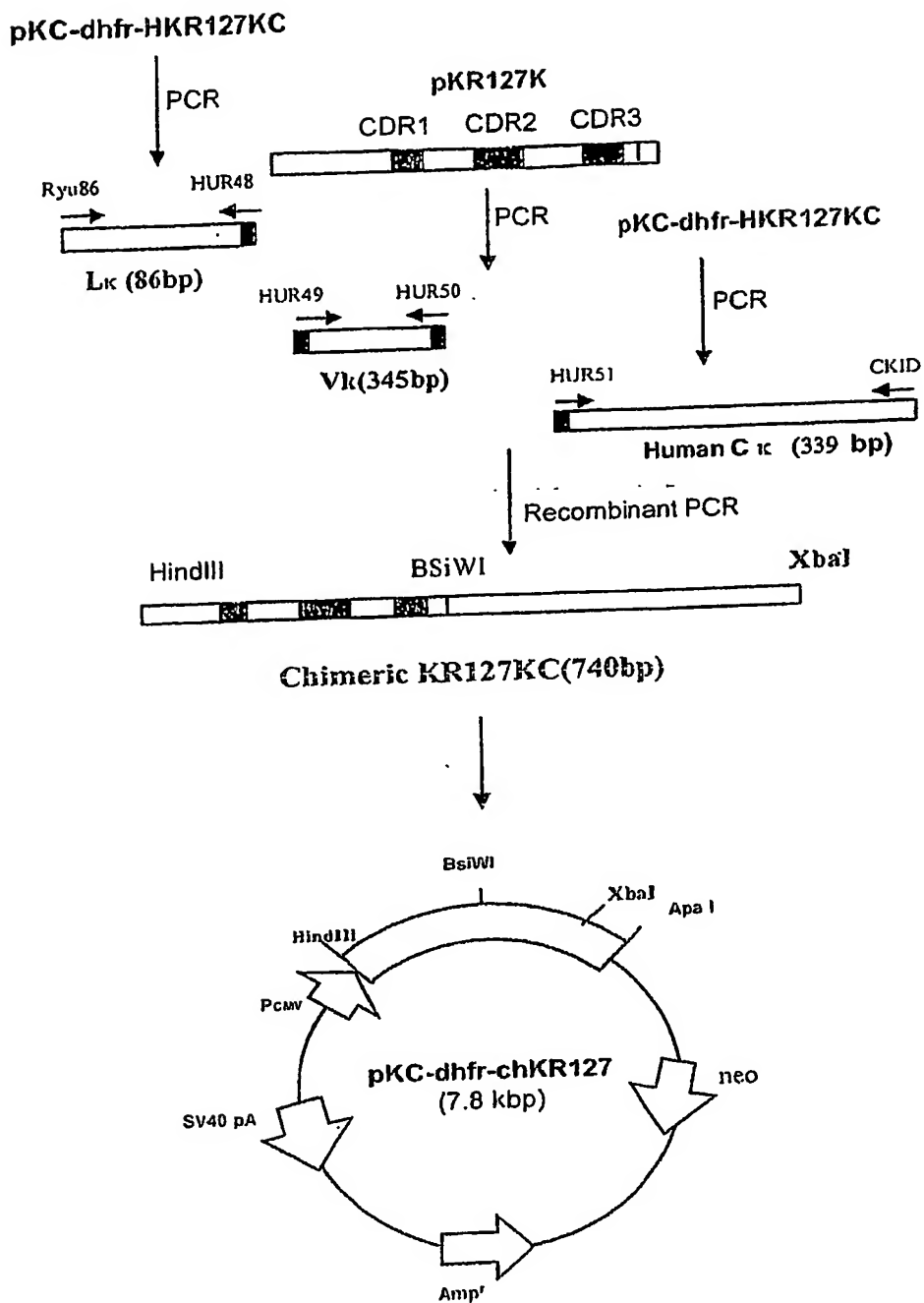


FIG. 4A

	CDR2														
	Q	R	P	G	Q	S	P	K	R	L	I	Y	<u>L</u>	<u>V</u>	
KR127VK	CAG	AGG	CCA	GGC	CAG	TCT	CCA	AAG	CGC	CTA	ATC	TAT	CTG	GTG	168
	Q	K	P	G	Q	P	P	Q	L	L	I	Y	E	V	
DPK12	CAG	AAG	CCA	GGC	CAG	CCT	CCA	CAG	CTC	CTG	ATC	TAT	GAA	GTT	
HZJ	CAG	AAG	CCA	GGC	CAG	TCT	CCA	AAG	CGC	CTA	ATC	TAT	CTG	GTG	
HZJV	CAG	AAG	CCA	GGC	CAG	CCT	CCA	CAG	CGC	CTA	ATC	TAT	CTG	GTG	
HZJ	-	K	-	-	-	-	-	-	-	-	-	-	-	-	
HZJV	-	K	-	-	-	P	-	Q	-	-	-	-	-	-	

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FIG. 4B

CDR2

	<u>S</u>	<u>K</u>	<u>L</u>	<u>D</u>	<u>S</u>	G	V	P	D	R	F	T	G	S
KR127VK	TCT	AAA	CTG	GAC	TCT	GGA	GTC	CCT	GAC	AGG	TTC	ACT	GGC	AGT 210
	S	N	R	F	S	G	V	P	D	R	F	S	G	S
DPK12	TCC	AAC	CGG	TTC	TCT	GGA	GTG	CCA	GAT	AGG	TTC	AGT	GGC	AGC
HZ1	TCT	AAA	CTG	GAC	TCT	GGA	GTC	CCT	GAC	AGG	TTC	AGT	GGC	AGT
HZ1V	TCT	AAT	CGG	GAC	TCT	GGA	GTC	CCT	GAC	AGG	TTC	AGT	GGC	AGT
HZ1	-	-	-	-	-	-	-	-	-	-	-	S	-	-
HZ1V	-	N	R	-	-	-	-	-	-	-	-	S	-	-

	G	S	G	T	D	F	T	L	K	I	I	R	V	E
KR127VK	GGA	TCA	GGA	ACA	GAT	TTT	ACA	CTG	AAA	ATC	ATC	AGA	GTG	GAG 252
	G	S	G	T	D	F	T	L	K	I	S	R	V	E
DPK12	GGG	TCA	GGG	ACA	GAT	TTT	ACA	CTG	AAA	ATC	AGC	CGG	GTG	GAG
HZ1	GGA	TCA	GGA	ACA	GAT	TTT	ACA	CTG	AAA	ATC	AGC	AGA	GTG	GAG
HZ1V	GGA	TCA	GGA	ACA	GAT	TTT	ACA	CTG	AAA	ATC	AGC	AGA	GTG	GAG
HZ1	-	-	-	-	-	-	-	-	-	-	S	-	-	-
HZ1V	-	-	-	-	-	-	-	-	-	-	S	-	-	-

CDR3

	A	E	D	L	G	V	Y	Y	C	<u>V</u>	<u>Q</u>	<u>G</u>	<u>T</u>	<u>H</u>
KR127VK	GCT	GAG	GAT	TTG	GGA	GTT	TAT	TAC	TGC	GTG	CAA	GGT	ACA	CAT 294
	A	E	D	V	G	V	Y	Y	C	M	Q	S	I	Q
DPK12	GCT	GAG	GAT	GTT	GGG	GTT	TAT	TAC	TGC	ATG	CAA	AGT	ATA	CAG
HZ1	GCT	GAG	GAT	GTT	GGA	GTT	TAT	TAC	TGC	GTG	CAA	GGT	ACA	CAT
HZ1V	GCT	GAG	GAT	GTT	GGA	GTT	TAT	TAC	TGC	GTG	CAA	GGT	ACA	CAT
HZ1	-	-	-	V	-	-	-	-	-	-	-	-	-	-
HZ1V	-	-	-	V	-	-	-	-	-	-	-	-	-	-

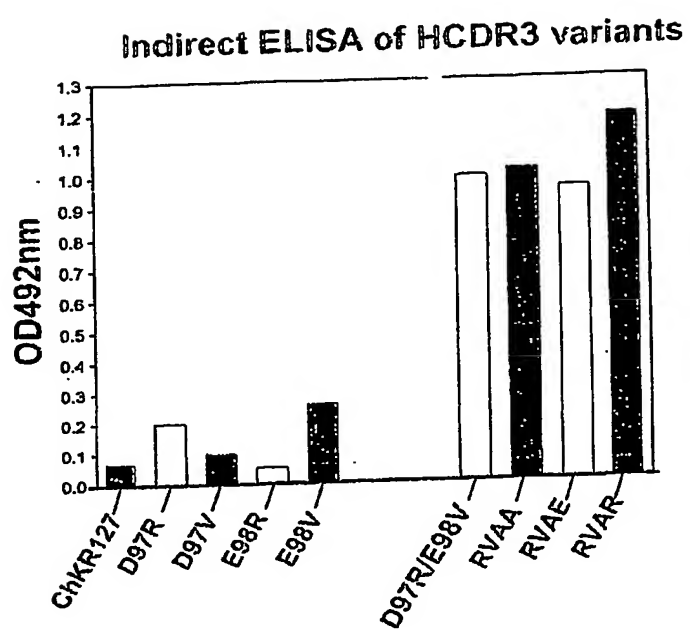
CDR3

	<u>F</u>	<u>P</u>	<u>Q</u>	<u>T</u>	F	G	G	G	T	K	L	E	I	K
KR127VK	TTT	CCT	CAG	ACG	TTC	GGT	GGA	GGC	ACC	AAG	CTG	GAA	ATC	AAA 336
	L	P		T	F	G	G	G	T	K	V	E	I	K
DPK12	CTT	CCT	CC											
HZ1	TTT	CCT	CAG	ACG	TTC	GGT	GGA	GGC	ACC	AAG	GTG	GAA	ATC	AAA
HZ1V	TTT	CCT	CAG	ACG	TTC	GGT	GGA	GGC	ACC	AAG	GTG	GAA	ATC	AAA
HZ1	-	-	-	-	-	-	-	-	-	-	V	-	-	-
HZ1V	-	-	-	-	-	-	-	-	-	-	V	-	-	-

(JK4)

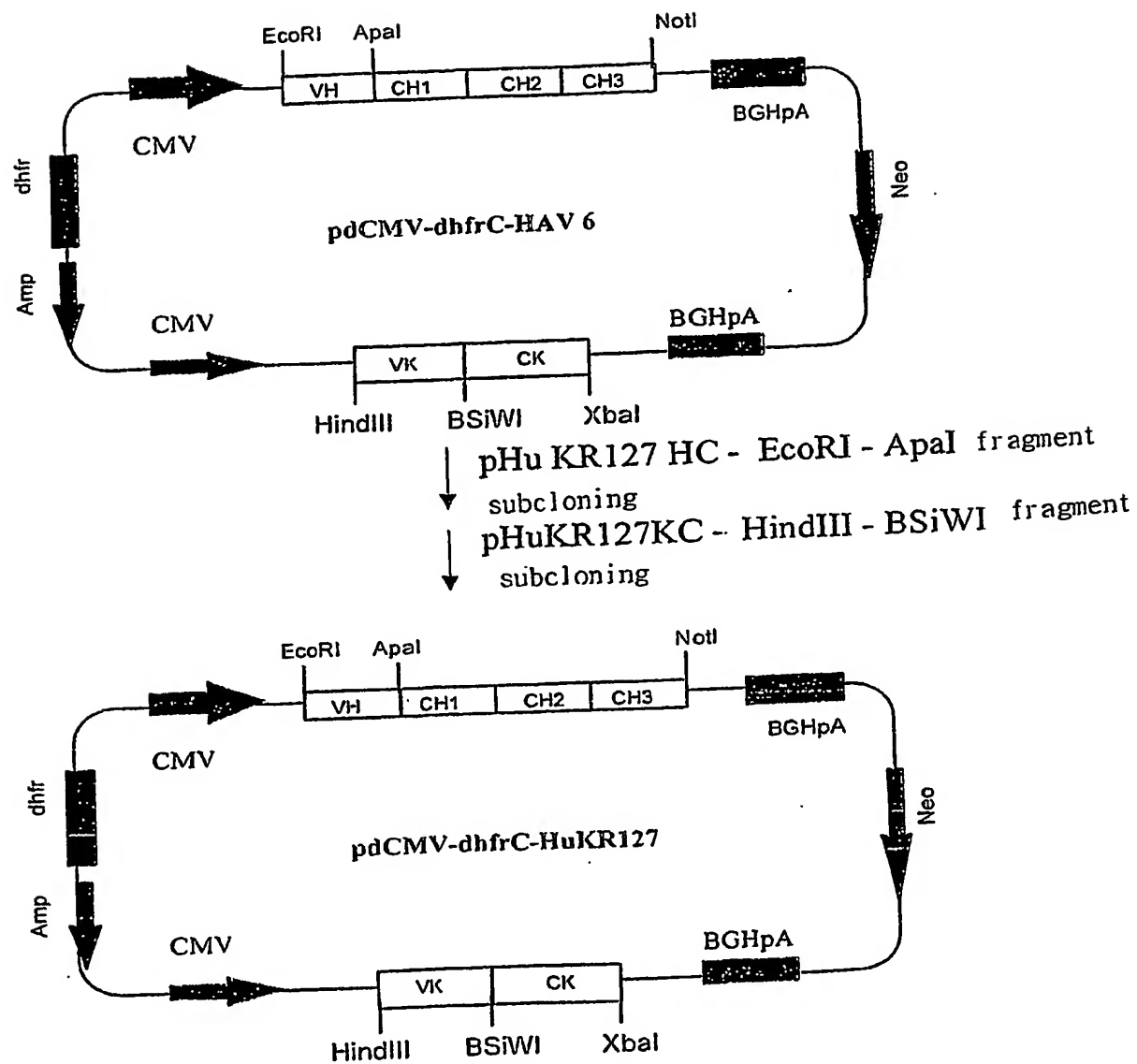
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FIG. 5



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FIG. 6



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FIG. 7

